DM-MD64X64

64x64 DigitalMedia™ Switcher

- *Provides lossless HD AV signal routing over twisted pair copper wire or fiber*
- *Integrates video, audio, networking, and control over one wire or fiber strand*
- *Modular design configurable in blades of 8 inputs or outputs*
- *Enables full matrix switching scalable from 8x8 to 64x64*
- *Handles HDMI® with Deep Color, 3D, 4K, and high-bitrate 7.1 encoded audio [1,3]*
- *HDBaseT® Certified — Enables direct connection to other HDBaseT certified equipment [1]*
- *Supports up to 64 DM 8G® transmitters and 64 DM 8G receivers*
- *Distributes Full HD 1080p, Ultra HD, and 4K signals over CAT type twisted pair cable at distances up to 330 ft (100 m) via DM 8G+™ and HDBaseT [1,4,7]*
- *Distributes 1080p and WUXGA signals over multimode fiber at distances up to 1000 ft (300 m) via DM 8G® Fiber [5,7]*
- *Distributes 1080p and WUXGA signals over single-mode fiber at distances up to 7.5 miles (12 km) via DM 8G SM Fiber [6,7]*
- *QuickSwitch HD® technology manages HDCP keys for fast, reliable switching*
- *Auto-Locking™ technology achieves rapid switching between disparate sources*
- *15" color touch screen enables simplified front panel setup, operation, video preview, and troubleshooting*
- *Built-in Web server enables full operation from any networked computer*
- *Allows system monitoring through front panel, Web browser, control system, or Fusion RV®*
- *Allows independent scaling for every display device through select DM receivers [8]*
- *Enables device control via CEC*
- *Distributes USB HID mouse and keyboard signals between transmitters and receivers [9]*
- *Expanded USB routing capabilities available using USB over Ethernet Extenders [9]*
- *Includes integrated Ethernet switch with Gigabit LAN port*
- *Private Network Mode — requires just one IP address for the complete DM system*
- *Features hot-swappable redundant power supplies and fan tray with advanced status monitoring*
- *Hot-swappable I/O blades afford fast restoration of service with minimal disruption*
- *14-space 19-inch rack-mountable*

Crestron® DM® Switchers provide the foundation for a complete DigitalMedia™ system, delivering an advanced 4K ultra high-definition AV signal routing solution that's extremely flexible and installer-friendly. The DM-MD64X64 is a modular matrix switcher designed for large-scale projects demanding ultimate reliability. It delivers ultra fast signal routing and pure, lossless distribution of HDMI® and other signals to support all the Blu-ray Disc® players, HDTV receivers, digital media servers, computers, cameras, and display devices that fill any modern facility.

DigitalMedia thoughtfully manages all of the disparate AV signals and devices to deliver a transparent user experience, and to ensure an optimum video image and audio signal at every location.

Featuring a scalable blade-based design, the DM-MD64X64 affords maximum input and output count in a condensed 14U rack-mountable chassis. The DM-MD64X64 is field-configurable to handle up to 64 inputs and 64 outputs, supporting HDMI, HDBaseT®, analog audio, and all types of DigitalMedia 8G™ signals.[1] Through a selection of hot-swappable input and output blades, and a variety of DM 8G® transmitters and receivers, the DM-MD64X64 allows extensive connectivity throughout a commercial or residential facility, supporting a wide range of signal types all through one switcher!

Integrated Ethernet networking and USB distribution provide a complete connectivity solution combined with built-in Crestron control[2] for managing the displays and other room devices without necessitating any additional wiring. Hot-swappable redundant power supplies and advanced system-wide monitoring ensure continuous, dependable operation for mission-critical applications. User-friendly operation, setup, and troubleshooting tools are provided through the front panel touch screen or Web browser interface to make setting up a complete multiroom 4K video distribution system easy.

DM-MD64X64 64x64 DigitalMedia™ Switcher

4K Ultra HD

Crestron DigitalMedia continues to advance the standard for digital AV signal distribution, delivering the world's first end-to-end 4K system solution. From day one, the DM-MD64X64 was designed to meet the extreme bandwidth requirements for handling 4K and Ultra HD video signals. Support for 4K video also ensures support for the latest generation of computers and monitors with native resolutions beyond 1080p and WUXGA.[3]

DigitalMedia 8G™

As the leader in HDMI and control system technologies, Crestron developed DigitalMedia (DM) to deliver the first complete HD AV distribution system to take HDMI to a higher level. DigitalMedia allows virtually any mix of HDMI and other AV sources to be distributed throughout a room, building, or campus. The latest generation of DM is called DigitalMedia 8G (DM 8G). Engineered for ultra high-bandwidth and ultimate scalability, DM 8G provides a true one-wire lossless transport for moving high-definition video, audio, Ethernet, and control signals over a choice of twisted pair or fiber optic cable.

DM 8G handles uncompressed Full HD 1080p, Ultra HD, 2K, and 4K[3] video signals with support for 3D, Deep Color, and HDCP. Audio capabilities include support for high-bitrate 7.1 audio formats like Dolby® TrueHD and DTS-HD Master Audio™ as well as uncompressed linear PCM. All signals are transported over one CAT type twisted pair cable or one strand of multimode or single-mode fiber. DM 8G enables wire distances up to 330 feet (100 m) via DM 8G+™ (DM 8G over twisted pair copper wire)[1,4,7], 1000 feet (300 m) via DM 8G Fiber (DM 8G over multimode fiber)[5,7], or 7.5 miles (12 km) via DM 8G SM Fiber (DM 8G over single-mode fiber)[6,7].

HDBaseT® Certified

Crestron DigitalMedia 8G+ technology is designed using HDBaseT Alliance specifications, ensuring interoperability with other HDBaseT certified products. Via DM 8G+, the DM-MD64X64 can be connected directly to an HDBaseT compliant device without requiring a DM transmitter or receiver.

Modular Architecture

The DM-MD64X64 features a modular architecture with 8 input blade slots and 8 output blade slots. Each blade slot on the DM-MD64X64 is field-installable, allowing for easy and flexible system configuration with the ability to make changes to the system as needs change. The input and output blades are hot-swappable to facilitate servicing without shutting down the whole switcher. I/O blades are offered to support the choice of HDMI, HDBaseT, analog audio, DM 8G+, DM 8G Fiber, and DM 8G Single-Mode Fiber. Each blade provides eight inputs or outputs of any one type.[1]

QuickSwitch HD®

Handling high-definition digital media means handling HDCP (High-bandwidth Digital Content Protection), the encryption scheme that content providers use to protect their DVDs, Blu-ray discs, and broadcast signals against unauthorized copying. Viewing HDCP encrypted content requires a source device to "authenticate" each display and signal processor in the system and issue it a "key" before the content can be viewed. Ordinarily this causes a complete loss of signal for up to 15 seconds each time a new source or display is selected anywhere in the system. To make matters worse, every source device has a limited number of keys available, so connect too many displays and the source will simply stop outputting a signal without warning.

DM-MD64X64 – Rear view with I/O blades installed

Not to worry — Crestron QuickSwitch HD manages the keys for every HDCP-compliant device in the system, maintaining continuous authentication for each device to ensure fast, reliable routing of any source to any number of display devices.

Auto-Locking™ Technology

Crestron Auto-Locking Technology enables super fast signal switching by instantaneously configuring every device in the signal path as soon as the signal hits the first device. Whether switching between sources or TV channels, Auto-Locking significantly reduces the time it takes each device to sense the new signal and configure itself to handle the changes, virtually eliminating any noticeable gap while switching.

EDID Format Management

With all of today's varied AV sources comes a multitude of confusing video and audio formats to keep track of, and chances are not every device in your system supports all of the same formats. Such conflicts can wreak havoc any time you route one source to more than one display or audio

component. The media source feeding your 1080p or Ultra HD projector in the theater may restrict itself to a lower resolution, or even shut off completely, if someone decides to view the same signal on a smaller TV in another room. And, instead of enjoying your theater's incredible 7.1 surround sound, you may find yourself limited to 5.1 or even plain old stereo.

DigitalMedia eliminates such conflicts by managing the EDID (Extended Display Identification Data) that modern digital devices use to communicate their capabilities. Through the DM-MD64X64, the format and resolution capabilities of each device can be assessed, allowing the installer to configure EDID appropriately for the most desirable and predictable behavior.

A Scaler for Every Display

High-performance scaling capability can be added to any DM system using select DM receivers with built in HD and 4K scalers. By placing an independent scaler at every display device, DigitalMedia truly delivers the most flexible and user-friendly solution for routing multiple disparate sources to many different display devices. This "Distributed Scaler Approach" ensures an optimal image on every screen no matter what sources are selected. Distributed scaling allows a high-res computer source to be viewed on any display in the building. It also allows an HD, Ultra HD, or 3D video source to be viewed simultaneously on the 4K display in your theater and on lower-resolution 2D displays throughout the house.

Built-in Ethernet Switch

In addition to transporting digital video and audio, DigitalMedia can also extend 10/100 Ethernet out to each display and source device via select DM receivers and transmitters, providing high-speed connectivity for any room device that requires a LAN connection. Ethernet is also utilized internally by the Crestron control bus to manage all of the DM devices in the system and provide display control in each room.

Private Network Mode

To streamline its implementation on a corporate or university LAN, the DM-MD64X64 employs Private Network Mode to provide a single-point connection for the complete system. Using Private Network Mode, the DM-MD64X64 requires just one IP address for the complete DM network including all connected DM receivers and transmitters.

USB Signal Routing

Along with video, audio, and Ethernet, DigitalMedia also provides for the routing of USB HID (Human Interface Device) signals, allowing a USB HID compliant keyboard and/or mouse at one location to control a computer or media server in another location, whether just across the room or in another building. USB HID connectivity is provided through select DM receivers and transmitters.

Crestron also offers USB extenders to enable the routing of virtually any type of USB peripheral to any host device, all managed through the DigitalMedia system. Connect a USB over Ethernet Extender host module (USB-EXT-DM-LOCAL[8]) to each computer, media server, game system, annotator, and any other host that you want to control or communicate with. Then, install a device module (USB-EXT-DM-REMOTE[8]) at every display location to connect keyboards, mice, game controllers, white-boards, flash drives, cameras, and mobile devices. Every module communicates with the DM switcher over the local Ethernet network or via a direct connection to the LAN port of a DM transmitter or receiver.

CEC Embedded Device Control

The primary objective of every Crestron system is to enable precisely the control desired for a seamless user experience. DigitalMedia provides an alternative to conventional IR and RS-232 device control by harnessing the CEC (Consumer Electronics Control) signal embedded in HDMI. Through its connection to the control system, the DM-MD64X64 provides a gateway for controlling many devices right through their HDMI connections, potentially eliminating the need for any dedicated control wires or IR emitters. Through proper CEC signal management, DigitalMedia allows you to take control of each device as you like.

Touch Screen Front Panel

Simplified setup and operation of the DM-MD64X64 is provided through a large 15" color touch screen. Through its user-friendly graphical interface, the touch screen enables the routing of AV signals with the ability to view resolution and format information for every input and output signal, and even preview a live video image of any input. Configuration and diagnostics capabilities include monitoring of the status for each i/o blade, fan tray and power supply, configuration of Ethernet settings, and updating of the firmware for all connected devices.

Web Browser Control

The DM-MD64X64 also includes a built-in Web server, enabling full operation and monitoring through any networked computer with a Web browser. Password protection prevents unauthorized access to this feature.

Hot-Swappable Redundant Power Supplies

The DM-MD64X64 delivers enhanced reliability for mission critical applications, employing hot-swappable redundant power supplies to ensure continuous operation throughout the life of the system. Each of its two onboard power supplies has a demonstrated MTBF (Mean Time Between Failures) of over a half million hours, and in the unlikely event of an individual power supply fault, the switcher will continue to operate unhindered on only one power supply. Clear indication of such a fault is provided on the unit's front panel, and the power supplies can even be remotely monitored via a control system touch screen, mobile device, or Crestron Fusion RV® Remote Asset Management Software. A modular hot-swappable plug-in design allows either supply to be replaced in seconds without ever shutting down the switcher or removing it from the equipment rack.

Please refer to the DigitalMedia Resources Webpage at http://www.crestron.com/dmresources/ *for additional design tools and reference documents.*

DM-MD64X64 64x64 DigitalMedia™ Switcher

SPECIFICATIONS

Maximum DM 8G® Cable Lengths

Cable Type: / Resolution:	DM-CBL-ULTRA DM® Ultra Cable	DM-CBL-8G DM 8G® Cable	3rd-Party CAT5e (or better) UTP or STP
1080p60 Full HD	330 ft (100 m) via any DM 8G+ cards		
1920x1200 WUXGA			
1600x1200 UXGA			
2048x1080 2K DCI @24Hz			
2048x1080 2K DCI @60Hz	330 ft (100 m) via “4K” DM 8G+ cards	230 ft (70 m) via “4K” DM 8G+ cards	165 ft (50 m) via “4K” DM 8G+ cards
2560x1440 WQHD			
2560x1600 WQXGA			
3840x2160 Ultra HD			
4096x2160 4K DCI			

Cable Type: / Resolution:	CRESFIBER8G CresFiber® 8G Multimode Fiber	3rd-Party OM3 Multimode Fiber
1080p60 Full HD	1000 ft (300 m) via DM 8G Fiber cards	500 ft (150 m) via DM 8G Fiber cards
1920x1200 WUXGA		
1600x1200 UXGA		
2048x1080 2K DCI @24Hz		

Cable Type: / Resolution:	CRESFIBER8G-SM CresFiber 8G Single-Mode Fiber	3rd-Party G.652.D (or better) Single-Mode Fiber
1080p60 Full HD	7.5 miles (12 km) via DM 8G SM Fiber cards	
1920x1200 WUXGA		
1600x1200 UXGA		
2048x1080 2K DCI @24Hz		

Video

Switcher: 64x64 digital matrix, modular input/output blades, Crestron QuickSwitch HD®

Input Signal Types: Configurable via modular plug-in blades supporting HDMI®, DisplayPort Multimode[10], DVI[10], HDBaseT®[1], DM 8G+™[1], DM 8G Fiber, and DM 8G SM Fiber

Output Signal Types: Configurable via modular plug-in blades supporting HDMI[1], DVI[10], HDBaseT, DM 8G+, DM 8G Fiber, and DM 8G SM Fiber

Formats: HDMI, HDBaseT, or DM 8G w/Deep Color, 3D, & 4K; DVI; HDCP content protection support

Input Resolutions: Refer to the specifications for each input blade

Output Resolutions: Refer to the specifications for each output blade

Audio

Switcher: 64x64 digital multi-channel audio-follow-video matrix switching, monitor output;
Note: Audio breakaway is not supported

Input Signal Types: Configurable via modular plug-in blades supporting HDMI, DisplayPort Multimode[10], HDBaseT[1], analog (stereo 2-channel), DM 8G+[1], DM 8G Fiber, and DM 8G SM Fiber

Output Signal Types: Configurable via modular plug-in blades supporting HDMI[1], HDBaseT, analog (stereo 2-channel)[1], DM 8G+, DM 8G Fiber, and DM 8G SM Fiber

Formats: Dolby Digital®, Dolby Digital EX, Dolby Digital Plus, Dolby® TrueHD, DTS®, DTS-ES, DTS 96/24, DTS-HD High Res, DTS-HD Master Audio™, up to 8ch PCM

Communications

Ethernet: 10/100/1000 Mbps, auto-switching, auto-negotiating, auto-discovery, full/half duplex, DHCP, Private Network Mode, Web server for remote configuration and operation

USB: USB signal routing via select transmitters, receivers, and extenders[9]; USB service port for computer console

DigitalMedia: DM 8G+ [1], DM 8G Fiber, DM 8G SM Fiber, HDCP, EDID, CEC, PoDM, Ethernet

HDBaseT: HDCP, EDID, PoH, Ethernet

HDMI: HDCP, EDID, CEC

NOTE: Supports management of HDCP and EDID; supports management of CEC between HDMI devices and a control system

Blade Slots

INPUT 1 – 8: (8) DM switcher input blade slots, hot-swappable;
Each slot accepts (1) DMB-I series input blade

OUTPUT 1 – 8: (8) DM switcher output blade slots, hot-swappable;
Each slot accepts (1) DMB-O series output blade

CPU: Accepts (1) DMB-CPU-64 CPU blade (included)

Connectors – CPU

LAN: (1) 8-wire RJ45 female;
10Base-T/100Base-TX/1000Base-T Ethernet port

SERVICE: (1) 8-wire RJ45 female;
Computer console part

MEMORY: (1) SD memory card slot; accepts one SD™ or SDHC™ card up to 32 GB for memory expansion (2 GB SD card included);
For save/load of configuration and EDID settings, and firmware update

AUDIO OUT: (1) 5-pin 3.5mm detachable terminal block;
Balanced/unbalanced stereo line-level output;
Output Impedance: 200 Ohms balanced, 100 Ohms unbalanced;
Maximum Output Level: 4 Vrms balanced, 2 Vrms unbalanced

DM-MD64X64 64x64 DigitalMedia™ Switcher

Connectors – Main Chassis

100-127V~50/60Hz 16A, 200-240V~50/60Hz 8A: (2) IEC 60320 C-20 main power inlets; mate with removable power cords, included

G: (1) 6-32 screw, chassis ground lug

COMPUTER (front): (1) USB Type B female;
USB computer console port (6 ft cable included)

Touch Screen

15 inch (381 mm) diagonal TFT active matrix color LCD, 15:9 WXGA, 1280 x 768 pixels, resistive touch membrane, amplified speakers; Provides signal routing, video input preview, video and audio signal information, system diagnostics, setup and configuration

Controls & Indicators

Touch Screen Hard Key: (1) pushbutton, not used
POWER SUPPLIES, 1 – 2: (2) green LEDs, indicate when each corresponding supply is functioning
POWER SUPPLIES, FAULT: (1) red flashing LED, indicates a fault with either supply
HW-R: (1) recessed miniature pushbutton for hardware reset, reboots the switcher
ACT (rear, CPU): (1) green LED, indicates CPU activity
MSG (rear, CPU): (1) red LED, indicates CPU has generated an error message
CPU RESET (rear, CPU): (1) recessed miniature pushbutton, reboots the CPU and front panel
LAN (rear, CPU): (2) LEDs, green LED indicates Ethernet link status, amber LED indicates Ethernet activity
SERVICE (rear, CPU): (2) LEDs, green LED indicates Ethernet link status, amber LED indicates Ethernet activity
OK (rear, power supplies): (2) green LEDs, indicate when each corresponding supply is powered and functioning
! (rear, power supplies): (2) amber LEDs, each indicates a fault with the corresponding supply

Power Requirements

Main Power: 16 Amps @ 100-127 Volts AC or 8 Amps @ 200-240 Volts AC, 50/60 Hz;
Requires (2) 20 Amp @ 100-127V, or (2) 10 Amp @ 200-240V, AC circuits

Available PoDM/PoH Power: Refer to the specifications for each DM 8G+ input and output blade[1]

Redundant Power Supplies

Quantity/Type: (2) high efficiency (>90%), hot-swappable, variable speed fan cooled, Crestron model DM-MDA-64-PWS (included)
Demonstrated MTBF: >500,000 hours per power supply
Redundancy: Complete unit continues to operate at full capacity on one or more functioning power supplies

Environmental

Temperature: 32° to 104°F (0° to 40°C)
Humidity: 10% to 90% RH (non-condensing)
Heat Dissipation: 5460 BTU/hr maximum, 3000 BTU/hr typical, with all blade slots occupied

Enclosure

Chassis: Metal with black finish, integrated rack ears, vented sides and rear, fan-cooled
Faceplate: Metal, black finish with polycarbonate label overlay, plastic touch screen bezel
Mounting: 14U 19-inch rack-mountable (rack ears built in)

Dimensions

Height: 24.44 in (621 mm)
Width: 19.00 in (483 mm)
Depth: 16.26 in (413 mm) without I/O blades

Weight

49.0 lb (22.3 kg) without I/O blades

DM-MD64X64 64x64 DigitalMedia™ Switcher

MODELS & ACCESSORIES

Available Models

DM-MD64X64: 64x64 DigitalMedia™ Switcher

Included Accessories

DMB-CPU-64: CPU Blade for DM-MD64X64 (Qty. 1 Included)
DM-MDA-64-FANTRAY: Fan Tray for DM-MD64X64 (Qty. 1 Included)
DM-MDA-64-PWS: Power Supply for DM-MD64X64 (Qty. 2 Included)

Available Accessories

DMB Series: Input and Output Blades for DM® Switchers
DM-CBL-ULTRA-NP: DigitalMedia™ Ultra Cable, Non-Plenum Type CMR
DM-CBL-ULTRA-P: DigitalMedia™ Ultra Cable, Plenum Type CMP
DM-CBL-ULTRA-LSZH: DigitalMedia™ Ultra Cable, Low Smoke Zero Halogen
DM-CONN: DigitalMedia™ Cable Connector
DM-CBL-8G-NP: DigitalMedia 8G™ Cable, non-plenum
DM-CBL-8G-P: DigitalMedia 8G™ Cable, plenum
DM-8G-CONN: DigitalMedia 8G™ Cable Connector
DM-8G-CRIMP: Crimping Tool for DM-8G-CONN
DM-8G-CONN-WG: DigitalMedia 8G™ Cable Connector with Wire Guide
DM-8G-CRIMP-WG: Crimping Tool for DM-8G-CONN-WG
CRESFIBER8G: CresFiber® 8G Multimode Fiber Optic Cable
CRESFIBER-CONN-SC50UM-12: CresFiber® Fiber Optic Cable Connector
CRESFIBER8G-SM: CresFiber® 8G Single-Mode Fiber Optic Cable
CRESFIBER8G-SM-CONN-LC-12: CresFiber® 8G Single-Mode Fiber Optic Cable Connectors
CRESFIBER-TK: CresFiber® Termination Kit
CRESFIBER-SINGLE-SC: CresFiber® Simplex Fiber Optic Cable Assembly, 50/125, SC
CRESFIBER-SINGLE-SC-ARMORED: CresFiber® ARMORED Simplex Fiber Optic Cable Assembly, 50/125, SC
CRESFIBER-SINGLE-SC-CLEAR: CresFiber® CLEAR Simplex Fiber Optic Cable Assembly, 50/125, SC
USB-EXT-DM-REMOTE: USB over Ethernet Extender with Routing, 4-Port Device Module
USB-EXT-DM-LOCAL: USB over Ethernet Extender with Routing, Host Module
AMP-2210S: 2x210W Commercial Power Amplifier, 4/8Ω
AIR SR6: AIR® 6.5" 2-Way Surface Mount Speakers

Notes:

1. Onboard HDMI output, analog audio output, HDBaseT input, and DM 8G+ input are future features that will be enabled through future output and input blades.
2. Crestron control via the DM network requires a Crestron control system, sold separately.
3. 4K and Ultra HD are currently supported via HDMI inputs and DM 8G+ (HDBaseT compatible) outputs. Additional 4K I/O options are coming soon.
4. The maximum cable length for DigitalMedia 8G+ (DM 8G+) or HDBaseT is dependent upon the type of cable and the resolution of the video signal. Refer to the "Maximum DM 8G Cable Lengths" table for a detailed overview. Crestron legacy cable models DM-CBL DigitalMedia Cable and DM-CBL-D DigitalMedia D Cable support the same resolutions and cable lengths as CAT5e. Shielded cable and connectors are recommended to safeguard against unpredictable environmental electrical noise which may impact performance at resolutions above 1080p. DM 8G+ is compatible with HDBaseT Alliance specifications for connecting to HDBaseT compliant equipment.
5. The maximum cable length for DigitalMedia 8G Fiber (DM 8G Fiber) is 1000 ft (300 m) using CRESFIBER8G multimode fiber optic cable, or 500 ft (150 m) using CRESFIBER (legacy), CRESFIBER-SINGLE-SC, or third-party OM3 simplex multimode fiber optic cable.
6. The maximum cable length for DigitalMedia 8G Single-Mode Fiber (DM 8G SM Fiber) is 7.5 miles (12 km) using CRESFIBER8G-SM or third-party G.652.D (or better) single-mode fiber optic cable.
7. Refer to the Crestron DigitalMedia Design Guide, Doc. #4546 for complete system design guidelines. All wire and cables are sold separately.
8. Item(s) sold separately.
9. Manages the routing of USB HID signals between peripheral DM devices that are equipped with USB HID ports. Also programmable to manage the routing of USB signals between Crestron USB over Ethernet Extender modules (USB-EXT-DM, sold separately).
10. DVI and DisplayPort Multimode connectivity is supported via an HDMI input port using a suitable adapter or interface cable. DVI output is supported via an HDMI output port using a suitable adapter or interface cable. CBL-HD-DVI interface cables are available separately.

This product may be purchased from an authorized Crestron dealer. To find a dealer, pleasecontact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/salesreps or by calling 800-237-2041.

The specific patents that cover Crestron products are listed online at: patents.crestron.com.

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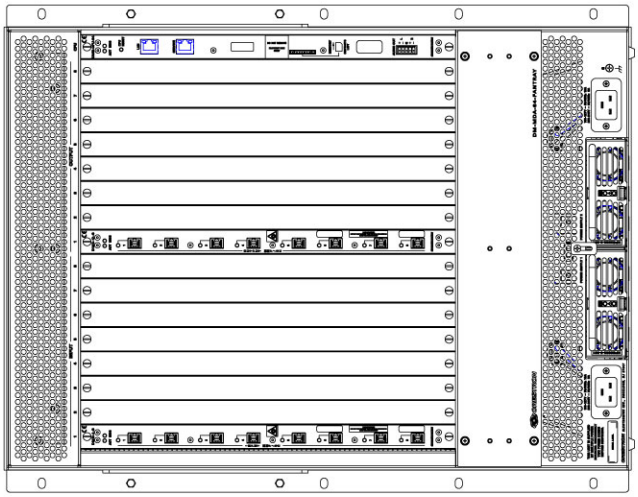
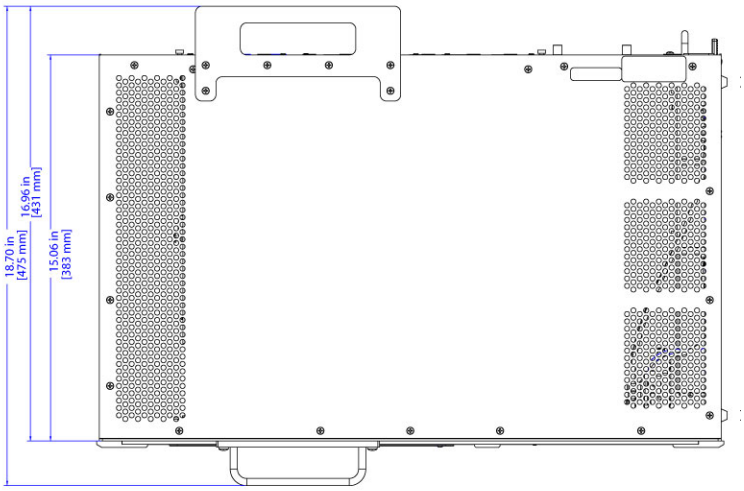
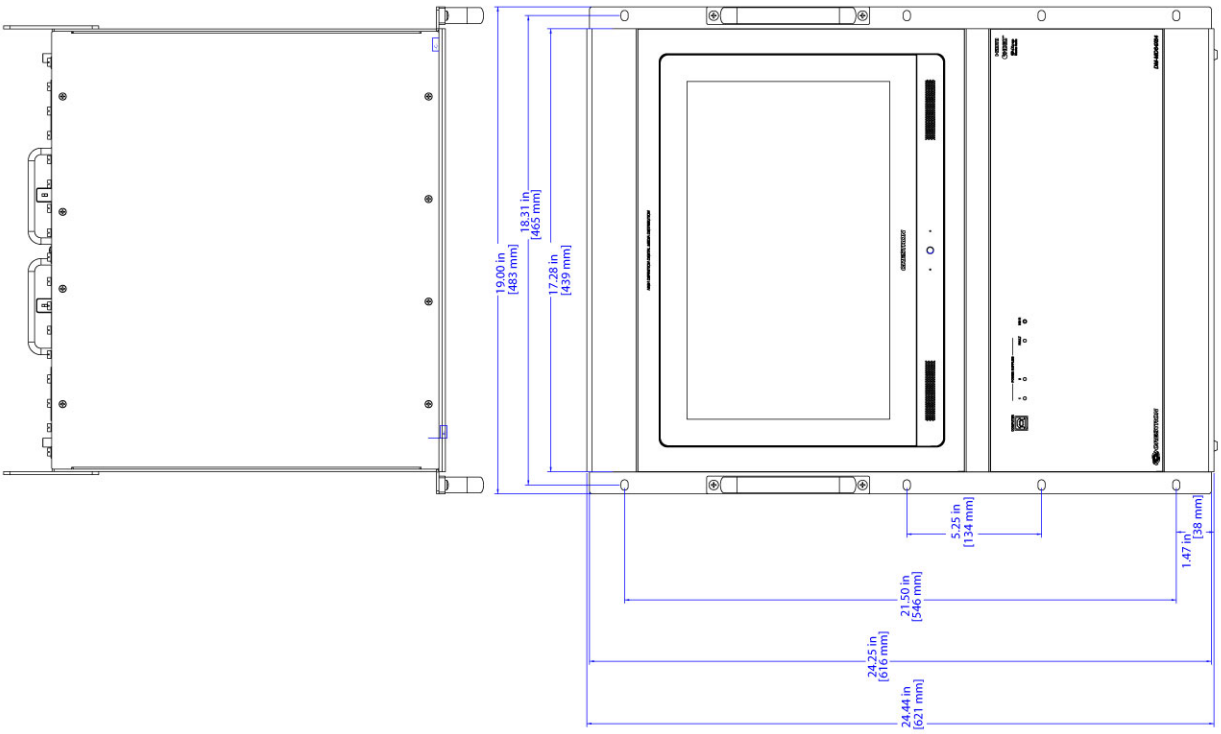
DM-MD64X64 64x64 DigitalMedia™ Switcher







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